



# PREVENT STORM WATER CONTAMINATION

## *Best Management Practices for*

### **Section P - Motor Freight, Freight Transportation, Petroleum Bulk Stations & Terminals, Rail Transportation, & U.S. Postal Service Transportation**



SIC Codes Major Groups 40, 41, 42, 43, and 5171

#### **General Information:**

1) Federal Storm Water regulations require the City to reduce the quantity of pollutants that enter our storm drains, rivers and washes from rainwater and other sources. 2) Water from any source that contains contaminants is prohibited from entering the storm drain system which includes streets, catch basins (street grates), ditches, washes and rivers. 3) Commercial and industrial wash or wastewater is prohibited from entering the storm drain system, street or any other outside area. 4) You may request a temporary discharge permit by calling Storm Water Management at 256-3190 prior to discharging. Restrictions apply. 5) All washing activities that use soap, solvents, degreasers or any other chemicals must be hauled to a landfill or discharged into the sanitary sewer through a sand/oil interceptor or approved pretreatment device. 6) City Ordinance requires all commercial and industrial facilities to develop and implement a Storm Water Management Plan (SWMP). 7) See 40CFR122 Section 6.N.6, October 30, 2000 for additional required BMPs.

#### **Fueling**

- ◆ Use spill and overflow protection.
- ◆ Minimize run-on of storm water into the fueling area by grading the area such that storm water only runs off.
- ◆ Reduce exposure of the fuel area to storm water by covering the area.
- ◆ Use dry clean-up methods for fuel area rather than hosing the fuel area down.
- ◆ Use proper petroleum spill control.
- ◆ Perform preventive maintenance on storage tanks to detect potential leaks before they occur.
- ◆ Inspect the fueling area to detect problems before they occur.
- ◆ Train employees on proper fueling techniques.

#### **Vehicle and equipment maintenance**

- ◆ Maintain an organized inventory of materials used in the maintenance shop.
- ◆ Dispose of greasy rags, oil filters, air filters, batteries, spent coolant and degreasers properly.
- ◆ Label and track the recycling of waste materials (e.g. used oil, spent solvents, batteries).
- ◆ Drain oil filters before disposal or recycling.
- ◆ Drain and contain all fluids from wrecked vehicles and "parts" cars.
- ◆ Store cracked batteries in a non-leaking secondary container.
- ◆ Promptly transfer used fluid to the proper container; do not leave full drip pans or other open containers around the shop. Empty and clean drip pans and containers.
- ◆ Do not pour liquid waste down floor drains, sinks or outdoor storm drain inlets.
- ◆ Plug floor drains that are connected to the storm drain or sanitary sewer system; if necessary, install a sump that is pumped regularly.

#### **Vehicle and equipment maintenance**

(Continued)

- ◆ Inspect the maintenance area regularly for proper implementation of control measures.
- ◆ Train employees on proper waste control and disposal procedures.

#### **Outdoor vehicle and equipment storage and parking**

- ◆ Use drip pans under all vehicles and equipment waiting for maintenance.
- ◆ Cover the storage area with a roof.
- ◆ Inspect the storage yard for filled drip pans and other problems regularly.
- ◆ Train employees on procedures for storage and inspection items.

#### **Locomotive sanding areas**

- ◆ Cover sand storage piles.
- ◆ Install sediment traps.
- ◆ Install curbs or dikes around storage piles to minimize storm water run-on.

#### **Painting areas**

- ◆ Keep paint and paint thinner away from traffic areas to avoid spills.
- ◆ Spray paint in an Occupational Safety and Health Act (OSHA) approved hood.
- ◆ Use effective spray equipment that delivers more paint to the target and less over-spray.
- ◆ Avoid sanding in windy weather and collect and dispose of waste properly.
- ◆ Recycle paint, paint thinner and solvents.
- ◆ Inspect painting procedures to ensure that they are conducted properly.
- ◆ Train employees on proper sanding, painting and spraying techniques.

## Vehicle or equipment washing areas

- ◆ Avoid washing parts or equipment outside.
- ◆ Use phosphate-free biodegradable detergents.
- ◆ Designate an area for cleaning activities.
- ◆ Contain and recycle wash waters.
- ◆ Ensure that wash waters drain well.
- ◆ Inspect cleaning area regularly.
- ◆ Train employees on proper washing procedures. Liquid storage in above ground storage
- ◆ Maintain good integrity of all storage containers.
- ◆ Install safeguards (such as diking or berming) against accidental releases at the storage area.
- ◆ Inspect storage tanks to detect potential leaks and perform preventive maintenance.
- ◆ Inspect piping systems (pipes, pumps, flanges, couplings, hoses and valves) for failures or leaks.
- ◆ Train employees on proper filling and transfer procedures.

## Cold weather activities

- ◆ Minimize salt application.
- ◆ Use uncontaminated dirt or ash, if use is necessary.
- ◆ Train employees on proper salt, dirt, sand or ash application.

## Improper connections to storm drain

- ◆ Plug all floor drains connected to sanitary sewer or storm drain or if connection is unknown. Alternatively, install a sump that is pumped regularly.
- ◆ Perform smoke or dye testing to determine if interconnections exist between sanitary sewer system and storm drain system.
- ◆ Update facility schematics to accurately reflect all plumbing connections.
- ◆ Install a safeguard against vehicle wash waters entering the storm drain.
- ◆ Maintain and inspect the integrity of all under ground storage tanks; replace when necessary.
- ◆ Train employees on proper disposal practices for all materials.

## Training

- ◆ All employees should be trained in the following areas at least once per year.
  - ◆ Spill response
  - ◆ Good housekeeping
- ◆ Material management practices
- ◆ Procedures for equipment and container washing.

## Inspections

- ◆ Conduct routine quarterly storm water inspections and during wet weather within 24 hours of the event.
- ◆ Inspect the following specific areas in addition to other required sites:
  - ◆ Storage areas for vehicle awaiting repairs.
  - ◆ Fueling areas.
  - ◆ Indoor and outdoor vehicle / equipment maintenance areas.
  - ◆ Material storage areas.
  - ◆ Vehicle and equipment cleaning areas.
  - ◆ Loading and unloading areas.
  - ◆ Complete the BMP checklist during each inspection.
  - ◆ All structural and non-structural BMPs.
  - ◆ All areas exposed to precipitation will be visually inspected for evidence of or the potential for pollutants entering the storm drain system.
- ◆ Structural BMPs (berms and dikes) will be inspected to ensure they are operating correctly.

## Storm Water Management Plan (SWMP) or Storm Water Pollution Prevention Plan (SWPPP)

- ◆ Develop and implement a SWMP or SWPPP.
- ◆ All Storm Water Plans (SWMP or SWPPP) must be submitted to the city for approval.
- ◆ SIC codes in this class must submit an industrial Notice of Intent (NOI) to ADEQ.

## If spills occur:

- ◆ **Stop the source of the spill immediately.**
- ◆ **Contain the liquid until cleanup is complete.**
- ◆ **Deploy oil containment booms if the spill may reach water or a storm drain.**
- ◆ **Cover the spill with absorbent material.**
- ◆ **Keep the area well ventilated.**
- ◆ **Dispose of clean-up materials properly.**
- ◆ **Do not use an emulsifier or dispersant.**

The BMPs found on this page are paraphrased from Federal Storm Water documents 40CFR122, 1995 or later.

## Storm Water



**Management**  
**A member of STORM**  
Stormwater Outreach for  
Regional Municipalities

## Only Rain in the Storm Drain!

**602-256-3190**  
**or 602-495-0334 in Spanish**  
**Fax: 602-495-2016**  
**Email: [stormwtr.str@phoenix.gov](mailto:stormwtr.str@phoenix.gov)**

Upon request, the Street Transportation Department will make this publication available through appropriate auxiliary aids or services to accommodate an individual with a disability by calling 602-256-3190; or faxing a request to 602-495-2016.



**City of Phoenix**

STREET TRANSPORTATION DEPARTMENT  
STORM WATER MANAGEMENT SECTION